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(54) Title: SELF-SCANNED PHOTODIODE ARRAY WITH SELECTIVELY-SKIPPED PIXELS

(57) Abstract: A self scanning photodiode array allows low signal pixels to accumulate charge for multiples of predetermined exposure time t_0 before being read. The pattern of exposures, the integers M_i where i runs from 1 to N the number of pixels in the array, is chosen such that the pixels of interest accumulate as much charge as possible without exceeding saturation.